

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alcassedan, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/581,481	04/06/2007	Tsutomu Ikeda	00684.517380.	3895	
SS14 27590 05/11/2010 FTIZPATRICK CELLA HARPER & SCINTO 1290 Avenue of the Americas NEW YORK, NY 10104-3800			EXAM	EXAMINER	
			CHOW, YUK		
			ART UNIT	PAPER NUMBER	
			2629		
			MAIL DATE	DELIVERY MODE	
			05/11/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/581.481 IKEDA ET AL. Office Action Summary Examiner Art Unit YUK CHOW 2629 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 07 January 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2 and 5-8 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 12- and 5-8 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SD/08)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Page 2

Application/Control Number: 10/581,481

Art Unit: 2629

DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1- 2, 5-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsuda (US 2005/0190431).

As to claim 1, Matsuda discloses a particle movement-type display apparatus, comprising:

a substrate (Fig. 2(1a));

a plurality of pixels (Fig. 2(G1,G2,G3));

a <u>partition wall disposed on the substrate for partitioning the plurality of pixels</u>

(Fig. 2(wall below 7)); and

particles disposed at the plurality of the pixels (Fig. 2(3a,3b));

wherein the plurality of the pixels and the partition wall constitute a display

portion around which a peripheral area is disposed (Fig. 2(area A));

wherein the peripheral area includes a projection portion (Fig. 2(7)), and

wherein the projection portion or the partition wall is provided with a recess

portion at a surface thereof opposite from a surface thereof facing the substrate (see

Application/Control Number: 10/581,481

Art Unit: 2629

Fig. 2, area A has a recess portion due to the width became narrower towards the substrate 1b).

As to claim 2, Matsuda discloses an apparatus according to Claim 1, wherein the recess portion has a depth which is not less than a diameter of the particles (see Fig. 2, depth of recess area A is less than a diameter of the particles).

As to claim 5, Matsuda discloses a particle movement-type display apparatus, comprising:

a substrate (Fig. 2(1a));

a plurality of pixels (Fig. 2(G1,G2,G3));

a partition wall <u>disposed on the substrate for partitioning the plurality of pixels</u>
(Fig. 2(wall below 7)); and

particles disposed at the plurality of pixels (Fig. 2(3a,3b))

wherein the plurality of pixels and the partition wall constitute a display portion around which a peripheral area is disposed (Fig. 2(area A));

wherein in the peripheral area, a plurality of a projection portions each having a height substantially equal to a height of the partition wall is provided (Fig. 2(7) has same height of partition wall which is directly below); and

wherein each of the projection portions is separated by a spacing area (Fig. 2 shows each (7) is separated by spacing).

As to claim 6, Matsuda discloses an apparatus according to Claim 5, wherein the projection portion has curved line shape (see Fig. 2(7) has a curved line shape).

Art Unit: 2629

As to claim 7, Matsuda discloses an apparatus according to Claim 5, wherein the projection portion has a line width, which is not more than ten times a diameter of the particles, at an upper surface thereof (see Fig. 2, area A is not bigger than ten times diameter of the particles).

As to claim 8, Matsuda discloses a particle movement type display apparatus, comprising:

a substrate (Fig. 2(1a));

a plurality of pixels (Fig. 2(G1,G2,G3));

a partition wall disposed on the substrate for partitioning the plurality of pixels (Fig. 2(wall below 7)); and

particles disposed at the plurality of pixels (Fig. 2(3a,3b));

wherein the partition wall is provided with a recess portion at a surface thereof opposite from a surface thereof facing the substrate (see Fig. 2, area A has a recess portion (7) and facing the substrate 1b).

Response to Arguments

 Applicant's arguments with respect to claims 1-2 and 5-8 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). Application/Control Number: 10/581,481

Art Unit: 2629

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YUK CHOW whose telephone number is (571)270-1544. The examiner can normally be reached on 8-6 M-TH E.T..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amare Mengistu can be reached on 571 272-7674. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/581,481 Page 6

Art Unit: 2629

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Y. C./ Examiner, Art Unit 2629

/Amare Mengistu/

Supervisory Patent Examiner, Art Unit 2629